



# OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Machine Id  
**DEISTER 14027 SCREEN**  
 Component  
**Gearbox**  
 Fluid  
**SHELL MORLINA OIL ISO 220 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0851681</b>   | WC0851701   | WC0746913   |
| Sample Date    |     | Client Info |           | <b>14 Jun 2024</b> | 03 Jan 2024 | 29 Aug 2023 |
| Machine Age    | hrs | Client Info |           | <b>31427</b>       | 30406       | 29730       |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 600         | 10          |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |      |       |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron         | ppm    | ASTM D5185m | >200 | <b>78</b>    | 57   | 5     |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | 0     |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0     |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0     |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0     |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>3</b>     | 6    | <1    |
| Lead         | ppm    | ASTM D5185m | >50  | <b>4</b>     | 2    | <1    |
| Copper       | ppm    | ASTM D5185m | >200 | <b>12</b>    | 22   | 2     |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | 0     |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0     |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | MODER |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE  |

## CONTAMINATION

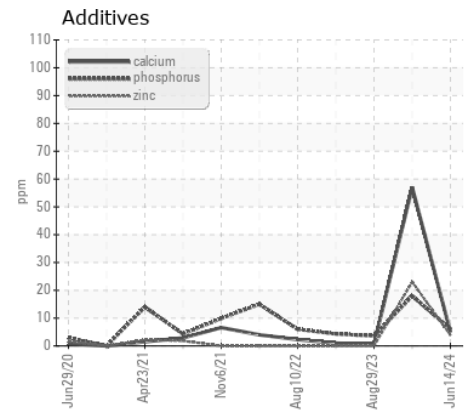
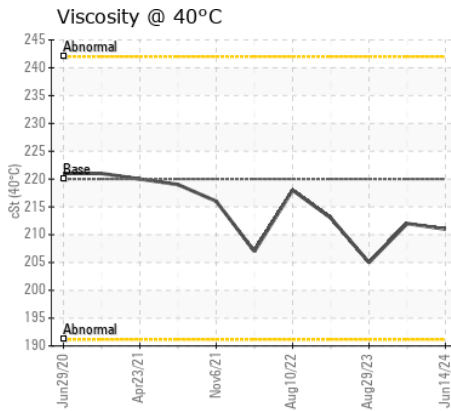
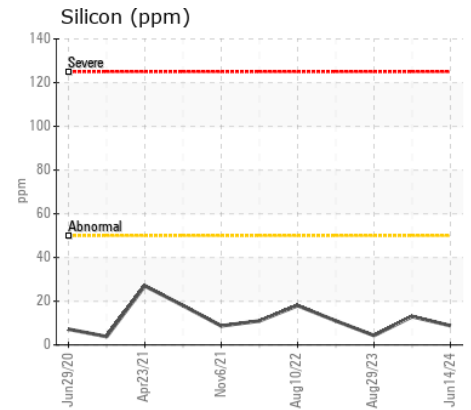
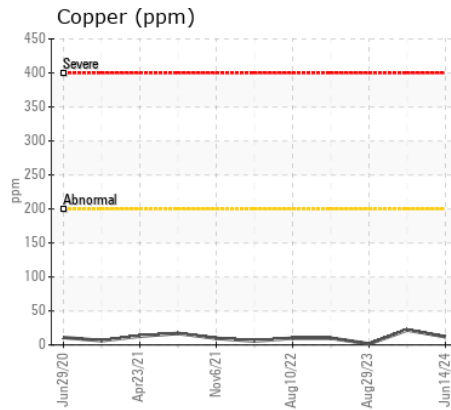
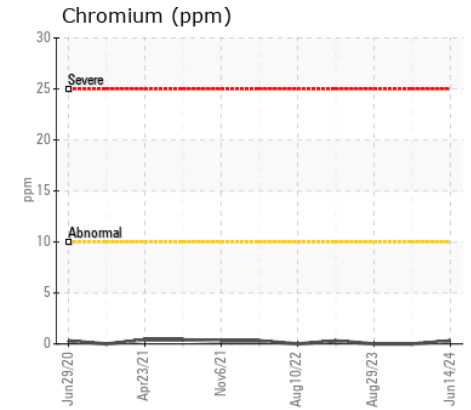
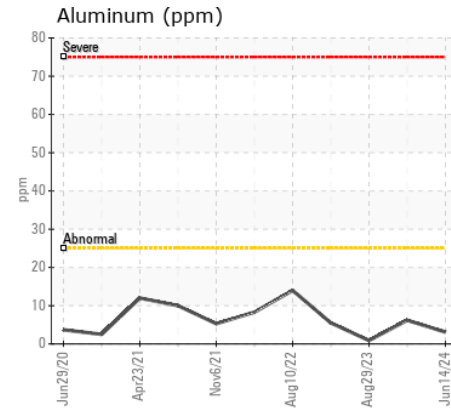
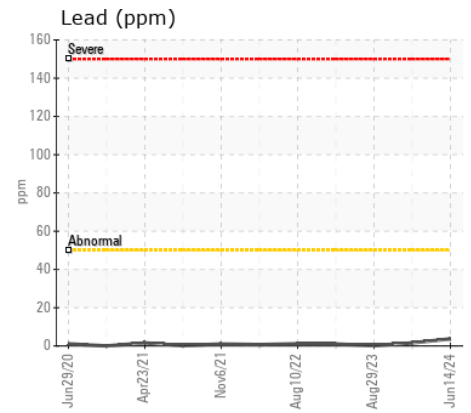
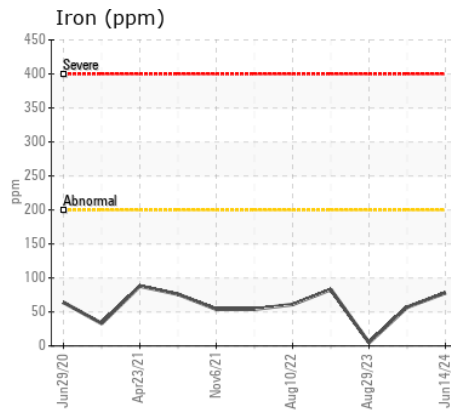
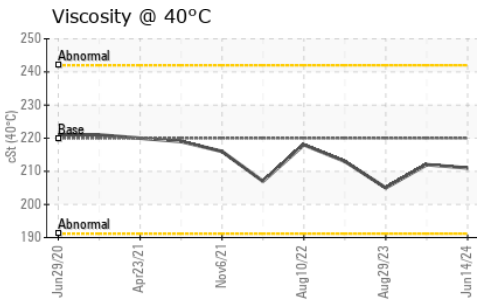
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>9</b>     | 13    | 4     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | <1    | <1    |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

|             |     |             |     |              |      |      |
|-------------|-----|-------------|-----|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |     | <b>&lt;1</b> | 0    | 0    |
| Boron       | ppm | ASTM D5185m |     | <b>0</b>     | 0    | 1    |
| Barium      | ppm | ASTM D5185m |     | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m |     | <b>0</b>     | 0    | 0    |
| Manganese   | ppm | ASTM D5185m |     | <b>1</b>     | 0    | 0    |
| Magnesium   | ppm | ASTM D5185m |     | <b>&lt;1</b> | 0    | 0    |
| Calcium     | ppm | ASTM D5185m |     | <b>5</b>     | 57   | <1   |
| Phosphorus  | ppm | ASTM D5185m |     | <b>6</b>     | 18   | 4    |
| Zinc        | ppm | ASTM D5185m |     | <b>4</b>     | 23   | 0    |
| Sulfur      | ppm | ASTM D5185m |     | <b>9253</b>  | 7117 | 7114 |
| Visc @ 40°C | cSt | ASTM D445   | 220 | <b>211</b>   | 212  | 205  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0851681  
**Lab Number** : 06217146  
**Unique Number** : 11090010  
**Test Package** : MOB 1

**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Wes Davis

**WAKE STONE CORPORATION - BATTLEBORO**  
 NASH CO. QUARRY, 7379 N. HALIFAX RD.  
 BATTLEBORO, NC  
 US 27809  
 Contact: WAYNE HILL  
 waynehill@wakestonecorp.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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